

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 265.00170101	Serial No.: 09/864,866
	Applicant(s): Lloyd et al.	Confirmation No.: 2264
	Filing Date: May 23, 2001	Group: 1645

PATENT
NOV 26 2001
U.S. PAT. & TM. OFF.

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
W	4,794,075	12/27/88	Ford et al.			
W	5,190,762	03/02/93	Yarosh			
W	5,302,389	04/12/94	Kripke et al.			
W	5,994,095	11/30/99	Kamb			
W	6,017,706	01/25/00	Parshad et al.			
W	6,103,746	08/15/00	Yarosh			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	NONE						

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Document Description
W	Ananthaswamy et al., "Molecular mechanisms of ultraviolet radiation carcinogenesis," <i>Photochem Photobiol.</i> 1990 Dec;52(6):1119-36. ✓
W	Ausubel et al., (Eds.) <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc. New York, NY. (1994). ✓
W	Ballinger et al., "Hydrogen peroxide causes significant mitochondrial DNA damage in human RPE cells," <i>Exp Eye Res.</i> 1999 Jun;68(6):765-72. ✓
W	Ballinger et al., "Hydrogen peroxide- and peroxynitrite-induced mitochondrial DNA damage and dysfunction in vascular endothelial and smooth muscle cells," <i>Circ Res.</i> 2000 May 12;86(9):960-6. ✓
W	Ballinger et al., "Mitochondrial genome damage associated with cigarette smoking," <i>Cancer Res.</i> 1996 Dec 15;56(24):5692-7. ✓
W	Benhamou et al., "Variability in nucleotide excision repair and cancer risk: a review," <i>Mutat Res.</i> 2000 Apr;462(2-3):149-58. Review. ✓

EXAMINER M. A. Decker	Date Considered May 13 2002
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 265.00170101	Serial No.: 09/864,866
	Applicant(s): Lloyd et al.	Confirmation No.: 2264
	Filing Date: May 23, 2001	Group: 1645

Examiner Initial	Document Description
ch	Bohr et al., "DNA repair in an active gene: removal of pyrimidine dimers from the DHFR gene of CHO cells is much more efficient than in the genome overall," <i>Cell</i> . 1985 Feb;40(2):359-69. ✓
ch	Chong et al., "Single-column purification of free recombinant proteins using a self-cleavable affinity tag derived from a protein splicing element," <i>Gene</i> . 1997 Jun 19;192(2):271-81. ✓
ch	Clarkson et al., "The use of an immunological probe to measure the kinetics of DNA repair in normal and UV-sensitive mammalian cell lines," <i>Mutat Res</i> . 1983 Oct;112(5):287-99. ✓
ch	Cleaver, J., "Common pathways for ultraviolet skin carcinogenesis in the repair and replication defective groups of xeroderma pigmentosum," <i>J Dermatol Sci</i> . 2000 May;23(1):1-11. ✓
ch	Furuta et al., "Chlorella virus PBCV-1 encodes a homolog of the bacteriophage T4 UV damage repair gene denV," <i>Appl Environ Microbiol</i> . 1997 Apr;63(4):1551-6. ✓
ch	Garvish et al., "Active-site determination of a pyrimidine dimer glycosylase," <i>J Mol Biol</i> . 2000 Jan 21;295(3):479-88. ✓
ch	Garvish et al., "The catalytic mechanism of a pyrimidine dimer-specific glycosylase (pdg)/abasic lyase, Chlorella virus-pdg," <i>J Biol Chem</i> . 1999 Apr 2;274(14):9786-94. ✓
ch	Genbank Accession No. AF128160 National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus AF128160, Accession No. AF128160, "Chlorella virus isolate PBCV-1 pyrimidine dimer-specific glycosylase gene, complete cds," [online]. Bethesda, MD [retrieved on May 21, 2001]. Retrieved from the Internet:<URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=4927992&dopt=GenBank , 2 pages.
ch	Genbank Accession No. X04567 National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus MYT4ER1, Accession No. X04567 J02514 M24240 V00860 X01124, "Bacteriophage T4 DNA for 58.3 to 65.5 kb early region," [online]. Bethesda, MD [retrieved on May 21, 2001]. Retrieved from the Internet:<URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=15260&dopt=GenBank , 10 pages.

EXAMINER Matyona H. Halicki	Date Considered May 13 2002
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 265.00170101	Serial No.: 09/864,866
	Applicant(s): Lloyd et al.	Confirmation No.: 2264
	Filing Date: May 23, 2001	Group: 1645

Examiner Initial	Document Description
	Genbank Accession No. U22181, National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, GenBank Locus MLU22181, Accession No. U22181, "Micrococcus luteus ultraviolet N-glycosylase/AP lyase gene, complete cds," [online]. Bethesda, MD [retrieved on May 21, 2001]. Retrieved from the Internet:<URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=726272&dopt=GenBank , 2 pages.
JW	Horwich et al., "Structure and expression of a complementary DNA for the nuclear coded precursor of human mitochondrial ornithine transcarbamylase," <i>Science</i> . 1984 Jun 8;224(4653):1068-74. ✓
JW	Jorgensen et al., "Identification and characterization of human mitochondrial tryptophanyl-tRNA synthetase," <i>J Biol Chem</i> . 2000 Jun 2;275(22):16820-6. ✓
JW	Kim, J.-S. et al., "Ribonuclease S-peptide as a carrier in fusion proteins," <i>Protein Sci</i> . 1993 Mar;2(3):348-56. ✓
JW	Kripke, "Ultraviolet radiation and immunology: something new under the sun--presidential address," <i>Cancer Res</i> . 1994 Dec 1;54(23):6102-5. ✓
JW	Lloyd, "Base excision repair of cyclobutane pyrimidine dimers," <i>Mutat Res</i> . 1998 Sep 11;408(3):159-70. ✓
JW	Lloyd, "The initiation of DNA base excision repair of dipyrimidine photoproducts," <i>Prog Nucleic Acid Res Mol Biol</i> . 1999;62:155-75. ✓
JW	Lloyd, "T4 Endonuclease V - Structure/Function Analyses," Grant Abstract, Grant Number 5R01ES004091-13 [online], National Institute of Environmental Health Sciences, project dates 07/01/92-05/31/01 [retrieved on Nov. 20, 2001]. Retrieved from the Internet: URL: http://commons.cit.nih.gov/crisp3/crisp_lib.getdoc?textkey=6077934&p_grant_num=5R01ES004091-13&p_query=&ticket=139233&p_audit_session_id=1602039&p_keywords= , 2 pages. ✓
JW	McCullough et al., "Initiation of base excision repair: glycosylase mechanisms and structures," <i>Annu Rev Biochem</i> . 1999;68:255-85. ✓
JW	McCullough et al., "Characterization of a novel cis-syn and trans-syn-II pyrimidine dimer glycosylase/AP lyase from a eukaryotic algal virus, <i>Paramecium bursaria chlorella virus-1</i> ," <i>J Biol Chem</i> . 1998 May 22;273(21):13136-42. ✓

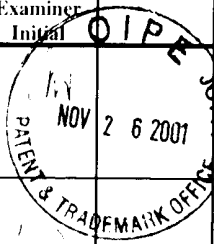
EXAMINER M. A. L. L.	Date Considered May 13, 2002
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	


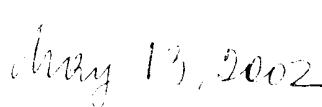
INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 265.00170101	Serial No.: 09/864,866
	Applicant(s): Lloyd et al.	Confirmation No.: 2264
	Filing Date: May 23, 2001	Group: 1645

Examiner Initial	Document Description
<i>df</i>	Mitchell et al., "Repair of pyrimidine(6-4)pyrimidone photoproducts in mouse skin," <i>J Invest Dermatol.</i> 1990 Jul;95(1):55-9.
<i>df</i>	Moroianu, "Nuclear import and export pathways," <i>J Cell Biochem.</i> 1999;Suppl 32-33:76-83.
<i>df</i>	Nishigori et al., "Evidence that DNA damage triggers interleukin 10 cytokine production in UV-irradiated murine keratinocytes," <i>Proc Natl Acad Sci U S A.</i> 1996 Sep 17;93(19):10354-9.
<i>df</i>	O'Neill et al, "A quantitative assay of mutation induction at the hypoxanthine-guanine phosphoribosyl transferase locus in Chinese hamster ovary cells (CHO/HGPRT system): utilization with a variety of mutagenic agents," <i>Mutat Res.</i> 1977 Oct;45(1):103-9.
<i>df</i>	Otterlei et al., "Nuclear and mitochondrial splice forms of human uracil-DNA glycosylase contain a complex nuclear localisation signal and a strong classical mitochondrial localisation signal, respectively," <i>Nucleic Acids Res.</i> 1998 Oct 15;26(20):4611-7.
<i>df</i>	Patrick, In: Photochemistry and Photobiology of Nucleic Acids, Wang (ed.) Vol. II, Academic Press, New York, pp. 1-32 (1976)).
<i>df</i>	Sambrook et al, Molecular Cloning: A Laboratory Manual., Cold Spring Harbor Laboratory Press (1989).
<i>df</i>	Sarasin, "The molecular pathways of ultraviolet-induced carcinogenesis," <i>Mutat Res.</i> 1999 Jul 16;428(1-2):5-10.
<i>df</i>	Tatusova, et al., "BLAST 2 Sequences, a new tool for comparing protein and nucleotide sequences," <i>FEMS Microbiol Lett.</i> 1999 May 15;174(2):247-50.
<i>df</i>	Ullrich et al, "Sunscreen effects on UV-induced immune suppression," <i>J Invest Dermatol Symp Proc.</i> 1999 Sep;4(1):65-9.
<i>df</i>	Watanabe et al., "The roles of the C-terminal domain and type III domains of chitinase A1 from <i>Bacillus circulans</i> WL-12 in chitin degradation," <i>J Bacteriol.</i> 1994 Aug;176(15):4465-72.
<i>df</i>	Wikonkal et al., "Ultraviolet radiation induced signature mutations in photocarcinogenesis," <i>J Invest Dermatol Symp Proc.</i> 1999 Sep;4(1):6-10.

EXAMINER <i>Chaitonite Halicka</i>	Date Considered <i>May 13, 2002</i>
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 265.00170101	Serial No.: 09/864,866
	Applicant(s): Lloyd et al.	Confirmation No.: 2264
	Filing Date: May 23, 2001	Group: 1645

Examiner Initial	Document Description
	Wispe et al., "Synthesis and processing of the precursor for human manganese-superoxide dismutase," <i>Biochim Biophys Acta</i> . 1989 Jan 19;994(1):30-6.
dm	Wolf et al., "Sunscreens and T4N5 liposomes differ in their ability to protect against ultraviolet-induced sunburn cell formation, alterations of dendritic epidermal cells, and local suppression of contact hypersensitivity," <i>J Invest Dermatol</i> . 1995 Feb;104(2):287-92.
dal	Yang et al., "Prevention of apoptosis by Bcl-2: release of cytochrome c from mitochondria blocked," <i>Science</i> . 1997 Feb 21;275(5303):1129-32.
dm	Yarosh et al., "Photoprotection by topical DNA repair enzymes: molecular correlates of clinical studies," <i>Photochem Photobiol</i> . 1999 Feb;69(2):136-40.
dm	Yoon et al., "The DNA damage spectrum produced by simulated sunlight," <i>J Mol Biol</i> . 2000 Jun 9;299(3):681-93.
dm	Ziegler et al., "Tumor suppressor gene mutations and photocarcinogenesis," <i>Photochem Photobiol</i> . 1996 Apr;63(4):432-5.

EXAMINER 	Date Considered 
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	